



## PAR5008T

**1-port IEEE1284 Parallel  
Universal PCI Board**



### Introduction

SUNIX PAR5008T PCI Parallel card enables users to add or expand one additional ECP/EPP/SPP/BPP communication port on their PC-based system for connecting their parallel devices. It is ideal for printers, IC programmers, ZIP Drives, or any Parallel devices\*. SUNIX PAR5008T card is designed with SUNIX high performance and realizable parallel connectivity controller, SUN1989 and as well built with many of SUNIX advanced features and technologies, making it the advanced and high efficient solution for commercial and industrial automation applications.

### Features

- High reliability SUNIX SUN1989 Parallel controller on-board.
- Expand single IEEE1284 Parallel port on system.
- Universal PCI compatible with 64/32-bit PCI-X/PCI Bus and 3.3/5V connector key.
- Compliance with PCI 33MHz Version 3.0/2.3/2.2/2.1 specification.
- Support IEEE 1284-1994 parallel port standard
  - ECP (Enhance Capacity Port) / EPP (Enhance Parallel Port)
  - SPP (Standard Parallel Port) / BPP (Bi-direction Parallel Port).
- Auto-switching between ECP/EPP/SPP/BPP modes without configuration.
- Plug-n-Play, I/O address and IRQ assigned by system.
- Certified by CE, FCC, RoHS, and Microsoft WHQL approval.
- Support Microsoft Windows, Linux, and DOS.



## Specifications

### Parallel Communication

|                      |                 |                     |                                                              |
|----------------------|-----------------|---------------------|--------------------------------------------------------------|
| <b>Interface</b>     | IEEE1284        | <b>BUS</b>          | Universal PCI 64/32bit 3.3V/5V<br>PCI Ver 3.0, 2.3, 2.2, 2.1 |
| <b>Controller</b>    | SUNIX SUN1989   | <b>IRQ &amp; IO</b> | Assigned by System                                           |
| <b>No. of Port</b>   | 1-port          | <b>Speed</b>        | Maximum 1.8Mbps                                              |
| <b>Mode</b>          | SPP/ECP/EPP/BPP | <b>FIFO</b>         | 16byte Hardware                                              |
| <b>PCB Connector</b> | DB25 Female     |                     |                                                              |

### Driver Support

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| <b>Microsoft Client</b>   | XP/Vista/7 (X86/X64)                             |
| <b>Microsoft Server</b>   | 2000/2003/2008 (X86/X64)                         |
| <b>Microsoft Embedded</b> | XP Embedded/POS Ready 2009/ Embedded System 2009 |
| <b>Linux</b>              | Linux 2.4.x/2.6.x                                |
| <b>DOS</b>                | DOS                                              |

### Regulatory Approvals

|                 |                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Hardware</b> | EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3,<br>FCC Part 15 Class B, BSMI: CNS13438, C-Tick: CISPR22 AS/NZS, RoHS |
| <b>Software</b> | Microsoft WHQL Windows<br>◆ Microsoft Client: XP/Vista/7 (X86/X64)<br>◆ Microsoft Server: 2000/2003/2008 (X86/X64)       |

### Environment

|                              |                           |
|------------------------------|---------------------------|
| <b>Operation Temperature</b> | 0 to 60°C (32 to 140°F)   |
| <b>Operation Humidity</b>    | 5 to 95% RH               |
| <b>Storage Temperature</b>   | -20 to 85°C (-4 to 185°F) |

### Dimension

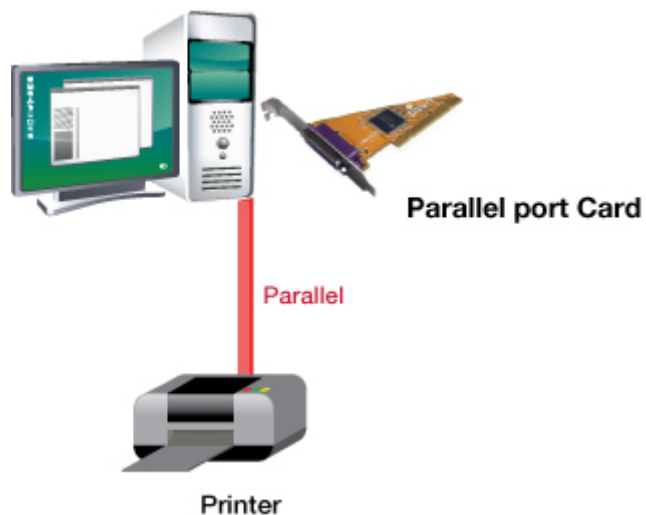
|                      |                 |
|----------------------|-----------------|
| <b>PCB Dimension</b> | 120 x 66 mm     |
| <b>Bracket</b>       | Standard 121 mm |
| <b>Bracket Space</b> | 1               |

#### Note:

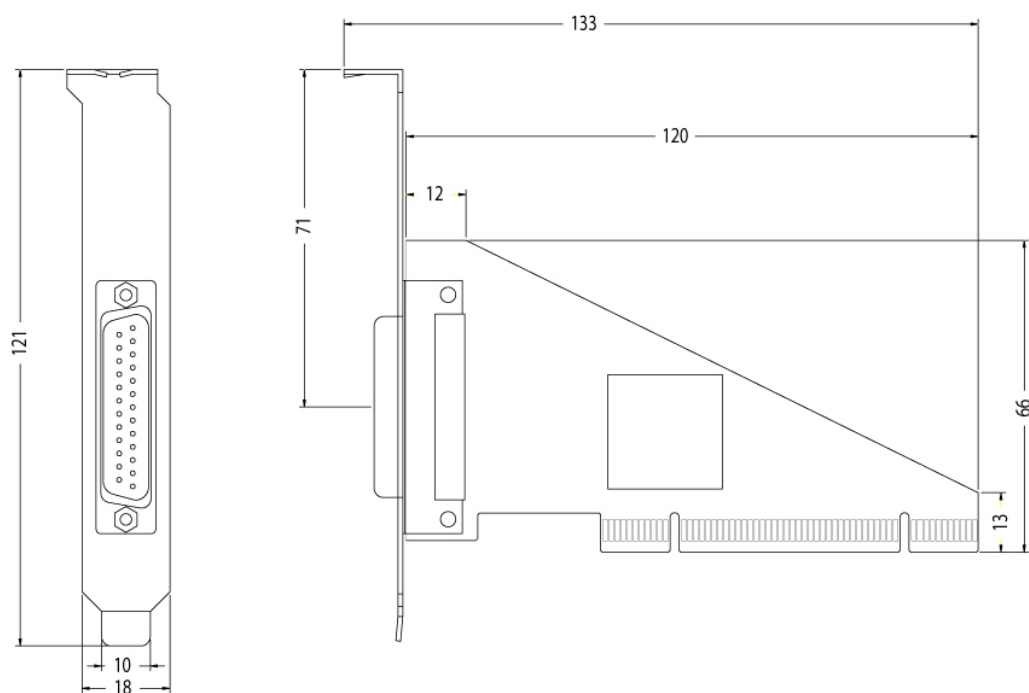
- \* Do not support LPT Key Locker Parallel device.
- \* LPT port does not support legacy 278/378 ISA address under Windows nor Linux operation systems, but only DOS mode.



## Application



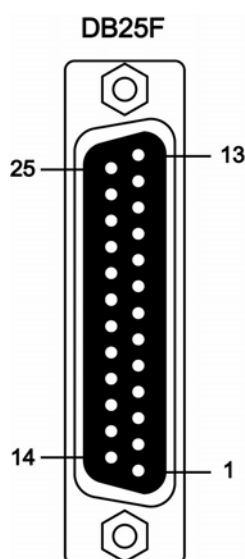
## Mechanical Drawings (Unit = mm)





## Pin Assignment

### Parallel



| PIN         | DB25F | PIN          | DB25F |
|-------------|-------|--------------|-------|
| STROBE      | 1     | AUTO FEED    | 14    |
| DATA0       | 2     | ERROR        | 15    |
| DATA1       | 3     | INT          | 16    |
| DATA2       | 4     | SELECT INPUT | 17    |
| DATA3       | 5     | GND          | 18    |
| DATA4       | 6     | GND          | 19    |
| DATA5       | 7     | GND          | 20    |
| DATA6       | 8     | GND          | 21    |
| DATA7       | 9     | GND          | 22    |
| ACKNOWLEDGE | 10    | GND          | 23    |
| BUSY        | 11    | GND          | 24    |
| PAPER EMPTY | 12    | GND          | 25    |
| SELECT      | 13    |              |       |

## Packing List

### Packing Content

- PAR5008T- 1-port IEEE1284 Parallel Universal PCI Board
- Quick Installation Guide
- Software CD ROM